

**ABSTRACT**

The present invention relates to a resin-coated steel sheet for fuel tanks of an automobile and a resin solution used for the same. The resin solution of the present invention comprises (a) a main solution of water soluble phenoxy resin having a number average molecular weight of 25,000 to 50,000; (b) 2 to 15 phr of melamine resin on the basis of the main solution; (c) 10 to 20 phr of colloidal silica on the basis of the main solution, (d) 2 to 10 phr of teflon resin on the basis of the main solution, and (e) 5 to 70 phr of metallic powder being selected at least one material from the group consisting of Al, Zn, Mn, Co, Ni, Sn and SnO. The resin solution is coated on a cold rolled steel sheet plated with zinc or zinc alloy over which a chromate layer films, and then baked at a local temperature of 160 to 250 °C to prepare a resin-coated steel sheet for fuel tanks of an automobile.

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